| 000000000<br>000000000<br>000<br>000<br>000<br>000<br>00 | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000 | PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP | CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC | CCCC 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000 | 0000000<br>0000000<br>000<br>000<br>000<br>000<br>000<br>00 | MMM<br>MMM<br>MMM<br>MMMMMM<br>MMMMMM<br>MMM<br>MMM<br>MMM | MMM<br>MMM<br>MMM<br>MMM<br>MMM |
|--|---|--|--|--|---|--|---------------------------------|
|  |   |  |  |  | 000   |  |                                 |
| 000  | 000   | PPP<br>PPP                             | 000                                    | 000  | 000<br>000<br>000   | MMM<br>MMM   | MMM                             |
| 00000000   | 0   | PPP                                    | 2222222<br>2222222                     | 000  | 0000000<br>0000000<br>0000000                               | MMM<br>MMM<br>MMM  | MMM<br>MMM<br>MMM               |

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Sym

ASC

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| 000000<br>000000<br>00 00<br>00 00<br>00 00 | PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP | 22222222 | 000000<br>000000<br>00 00<br>00 00 | MMMM     | MM<br>MM<br>MMMM<br>MMMM | RRRRRRRR<br>RRRRRRRR<br>RR RR<br>RR RR | 999999<br>999999<br>99 99 | SSSSSSSS<br>SSSSSSSS<br>SS   |          |
|---|--|----------|------------------------------------|----------|--------------------------|--|---------------------------|------------------------------|----------|
| 00 00                                       | PP PP                                  | CC       | 00 00                              | MM MM    | MM                       | RR RR                                  | 90 90                     | SS                           | II.      |
| 00 00                                       | PPPPPPPP                               | CC       | 00 00                              | MM<br>MM | MM                       | RRRRRRRR                               | 90 90                     | \$\$\$\$\$\$<br>\$\$\$\$\$\$ | II .     |
| 00 00                                       | PP<br>PP                               | CC       | 00 00                              | MM<br>MM | MM                       | RR RR                                  | 00 00 00                  | SS                           | II       |
| 00 00                                       | PP<br>PP                               | CC       | 00 00                              | MM<br>MM | MM                       | RR RR                                  | QQ QQ<br>QQ QQ            | SS                           | <u> </u> |
| 000000                                      | PP<br>PP                               | 0000000  | 000000                             | MM       | MM                       | RR RR                                  | 9999 99                   | SSSSSSSS                     | H        |

OP(

FACILITY:

**OPCOM** 

ABSTRACT:

This module contains the specialized logic to service a particular type of request sent by a user to OPCOM.

Environment:

VAX/VMS operating system.

Author:

Steven T. Jeffreys

Creation date:

March 10, 1981

Revision history:

V03-002 CWH3001 CW Hobbs 16-Sep-1983 Use jacket routines for VM calls.

CWH3001 CW Hobbs 30-Jul-1983 Various and sundry things to make OPCOM distributed V03-001 CWH3001

VO

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```
OPCSOPCOMRQST
VO4-000
                                                                                                16-Sep-1984 01:36:41
14-Sep-1984 12:50:50
                                                                                                                                   VAX-11 Bliss-32 V4.0-742
LOPCOM.SRCJOPCOMRQST.B32;1
    100
                        0099
                                    GLOBAL ROUTINE REQUEST_HANDLER (BUFFER_DESC) : NOVALUE =
0102
0103
0104
0105
                                      Functional description:
                                                This routine is the handler for all REQUEST messages received by OPCOM.
                        Input:
                                               BUFFER_DESC: The address of a quadword buffer descriptor that describes the buffer containing the message.
                                       Implicit Input:
                                               None.
                                       Output:
                                               None.
                                       Implict output:
                                               Some accounting data will be updated to reflect the receipt of the message.
                                       Side effects:
                                                None.
                                       Routine value:
                                               None.
                        0132
0133
0134
0135
0136
0137
                                    BEGIN
                                                                                                           ! Start of REQUEST_HANDLER
                                    MAP
                        0138
0139
                                               BUFFER_DESC
                                                                       : $ref_bblock;
                                    LOCAL
                                                                       : VECTOR [9, LONG],

: VECTOR [64, BYTE],

: VECTOR [2, LONG]

INITIAL (64, ON_BUF),

: $ref_bblock,

: $ref_bblock,

: $ref_bblock,

: $ref_bblock,
                                               MESSAGE_VECTOR
ON_BUF
ON_DSC
                                                                                                              Message info
Buffer for preposition (" on " node)
Desc for preposition
                                                RQCB
                                                                                                              RQCB data structure OCD data structure
                                                OCD
                                               MCB
MSG
                                                                                                              MCB data structure
                                                                                                              Pointer to user request
                                                FOUND
                                                                          LONG,
                                                                                                              Boolean
                                               SCOPE_LIMIT
                           50
                                                                          LONG,
                                                                                                              Scope of request
                                                                          LONG
                                                                                                              Loop control
                                                STATUS
                                                                        : LONG:
                                    EXTERNAL
                                                LCL_NODENAME
                                                                        : $bblock;
                                                                                                           ! Name of local node (DECnet or cluster)
```

OPO

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D 13
OPCSOPCOMRQST
V04-000
                                                                                 16-Sep-1984 01:36:41
14-Sep-1984 12:50:50
                                                                                                               VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJOPCOMRQST.B32:1
                                Make sure there is enough data in the request.
    160
                                  .BUFFER_DESC [DSC$W_LENGTH] LSS (OPC$K_COMHDRSIZ + OPC$K_REQUEST_MIN_SIZE)
   161
162
163
164
165
                    0160
                              THEN
                                   RETURN:
                                                                                           ! Ignore the request
                                Do some common sanity checks.
    166
167
                               IF NOT CHECK_REQUEST (.BUFFER_DESC, RQCB)
                              THEN
   168
169
170
171
172
173
                              MESSAGE_VECTOR [0] = 0;
                                                                                           ! Assume no errors
                                 See if the requestor is issuing this request on another's behalf.
                                 If so, and the requestor does not have the privilege to do so,
                                 then dismiss the request.
                    0174
0175
0176
0177
                               IF .RQCB [RQCB_L_SENDERUIC] NEQ .RQCB [RQCB_L_UIC]
   176
                              THEN
                                    IF (NOT .$bblock [RQCB [RQCB_L_PRIVMASK1], PRV$V_OPER])
                                   THEN
                                        IF NOT ((.$bblock [RQCB [RQCB_L_SENDERUIC], 2.0.16.0] EQL .$bblock [RQCB [RQCB_L_UIC], 2.0.16.0]) AN (.$bblock [RQCB [RQCB_L_PRIVMASK1], PRV$V_GROUP]))
   180
181
                                        THEN
                                             BEGIN
                                             MESSAGE_VECTOR [0] = OPC$_ILLRQST;
MESSAGE_VECTOR [1] = 0;
                                Create a descriptor within the RQCB to point to the request text.
                              MSG = .BUFFER_DESC [DSC$A_POINTER] + OPC$K_COMHDRSIZ;
RQCB [RQCB_L_TEXT_LEN] = .MSG [OPC$W_REQUEST_LENGTH];
IF (.RQCB [RQCB_L_TEXT_LEN] GTR 0)
   190
191
   192
                                   BEGIN
   194
                                     Create a buffer for the request text and copy the text to the buffer.
   196
197
                    0196
0197
                                   IF NOT (STATUS = OPC$GET_VM (RQCB [RQCB_L_TEXT_LEN], RQCB [RQCB_L_TEXT_PTR]))
    198
                                   THEN
                    0198
0199
    199
                                        BEGIN
                                        DEALLOCATE_RQCB (.RQCB);
                    0200
                                        RETURN:
                                   CH$MOVE (.RQCB [RQCB_L_TEXT_LEN], MSG [OPC$T_REQUEST_TEXT], .RQCB [RQCB_L_TEXT_PTR]);
                                   END
                              ELSE
                                   BEGIN
                                     There is no request text. Inform the requestor that this is not allowed.
                                   MESSAGE_VECTOR [0] = OPC$_ILLRQST;
MESSAGE_VECTOR [1] = 0;
                                   END:
```

OP

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16-Sep-1984 01:36:41
14-Sep-1984 12:50:50
OPCSOPCOMRQST
V04-000
                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJOPCOMRQST.B32:1
                                                                                                                                                                                                                                     Page
                                               find an OCD that can handle this request. The OCD is selected according to the SCOPE and UIC of the requestor. If the SCOPE is unspecified, then look for operator coverage starting in the least privileged scope and continuing to the most privileged. If no OCD is found, then dismiss the request.
     IF (.RQCB [RQCB_B_SCOPE] EQL OPC$K_UNSPEC)
                                                    SCOPE_LIMIT = OPC$K_SYSTEM
                                           SCOPE_LIMIT = .RQCB [RQCB_B_SCOPE];

FOUND = FALSE;
SCOPE = .RQCB [RQCB_B_SCOPE];
WHILE (.SCOPE GEQ .SCOPE_LIMIT) AND (NOT .FOUND) DO

IF NOT (FOUND = FIND_OCD (.SCOPE, .RQCB [RQCB_L_UIC], OCD))
                                                           SCOPE = .SCOPE - 1:
                                            IF NOT . FOUND
                                            THEN
                                                    BEGIN
                                                   MESSAGE_VECTOR [0] = OPC$_NOPERATOR;
MESSAGE_VECTOR [1] = 0;
                                                                                                                                                 ! No operator coverage
                                                If there is an error message to output,
                                                do so and dismiss the request.
                                            IF .MESSAGE_VECTOR [O] NEQ O
                             0241
0242
0243
0244
0245
0246
                                            THEN
                                                   BEGIN
                                                   FORMAT MESSAGE (.RQCB, MESSAGE VECTOR);
SEND REPLY (.RQCB, MESSAGE VECTOR);
DEALLOCATE RQCB (.RQCB);
                                                   RETURN;
                                                   END:
                                                Set the scope of the request.
                                               Format the request message and send it to all interested operators on the OCD's operator list.
                                           RQCB [RQCB_L_OCD] = .OCD;
RQCB [RQCB_B_SCOPE] = .OCD [OCD_B_SCOPE];
IF .LCL_NODENAME [DSC$W_LENGTH] NEQ 0
THEN
                                                                                                                                        Save OCD address
                                                                                                                                     ! Set request scope
                                                    IF NOT (STATUS = $GETMSG (MSGID=OPC$_ON_NODE, MSGLEN=ON_DSC, BUFADR=ON_DSC, FLAGS=1))
                                                           $signal_stop (.STATUS);
                                            ELSE
                                            IF .ROTB [ROCB_W_REPLYMBX] NEQ 0
                                                                                                                                                   ! Set the message code
                                            THEN
                                                   BEGIN
! Request with reply expected
REQUEST_NUMBER = CLUSUTIL_INCR_SEQUENCE (.REQUEST_NUMBER); ! Increment the number of request
RQCB [RQCB_L_RQSTNUM] = .REQUEST_NUMBER; ! Set the request number
MESSAGE_VECTOR [0] = OPC$_USERQST; ! Set the message code
```

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OPCSOPCOMRQST
                                                                                                                                     16-Sep-1984 01:36:41
14-Sep-1984 12:50:50
                                                                                                                                                                                      VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJOPCOMRQST.B32:1
                                                                                                                                                                                                                                                                 Page
                                                         MESSAGE_VECTOR [1] = 0;
MESSAGE_VECTOR [2] = .RQCB [RQCB_L_RQSTNUM];
MESSAGE_VECTOR [3] = .RQCB [RQCB_W_USERNAMELEN];
MESSAGE_VECTOR [4] = RQCB [RQCB_T_USERNAME];
MESSAGE_VECTOR [5] = ON_DSC;
MESSAGE_VECTOR [6] = .LCL_NODENAME [DSC$W_LENGTH];
MESSAGE_VECTOR [7] = .LCL_NODENAME [DSC$A_POINTER];
MESSAGE_VECTOR [8] = RQCB_[RQCB_L_TEXT_LEN];
FND
                                                                                                                                                                          Set the message Nargs
Set the request number
      Set the username string length
                                                                                                                                                                          Set the username string addr
The 'on' field
                                                                                                                                                                          Length of nodename
                                                                                                                                                                         Length of nodename
Set address request descriptor
                                                 ELSE
                                                         BEGIN
                                                                                                                                                                          Request with no reply expected
                                                         MESSAGE_VECTOR [0] = OPC$_USERMSG;

MESSAGE_VECTOR [1] = 0;

MESSAGE_VECTOR [2] = .RQCB [RQCB_W_USERNAMELEN];

MESSAGE_VECTOR [3] = RQCB [RQCB_T_USERNAME];

MESSAGE_VECTOR [4] = ON_DSC;

MESSAGE_VECTOR [5] = .LCL_NODENAME [DSC$W_LENGTH];

MESSAGE_VECTOR [6] = .LCL_NODENAME [DSC$A_POINTER];

MESSAGE_VECTOR [7] = RQCB_[RQCB_L_TEXT_LEN];
                                                                                                                                                                          Set message code
                                                                                                                                                                          Set number of paramters
Set the username string length
                                                                                                                                                                         Set the username string addr
The 'on 'field
                                                                                                                                                                         The "on "field
Length of nodename
                                                                                                                                                                         Length of nodename
                                                                                                                                                                         Set address request descriptor
                                                          END:
                                                 FORMAT MESSAGE (.RQCB, MESSAGE VECTOR);
IF NOTIFY_LISTED_OPERATORS (.RQCB)
                                                                                                                                                                     ! Format the message
                                                 THEN
                                                         BEGIN
                                                             At least one operator was notified of the request, so send it off to the cluster. Note that NOTIFY_LISTED_OPERATORS returns true if a remote operator is enabled for the request, even if no operators on the local node were notified.
                                 0298
0299
0300
                                                          CLUSMSG_RQCB_SEND (-1, CLM_REQUEST, .RQCB);
                                                                                                                                                                                     ! Send it everywhere
                                 0301
                                                              If the request expects a reply, then queue the RQCB
                                 0302
0303
                                                              onto the OCD for future reference. Log the request.
                                 0304
0305
                                                          LOG_MESSAGE (.RQCB);
                                                         IF TROCH [ROCH W REPLYMBX] NEQ O
                                 0306
0307
0308
                                                                  BEGIN
                                                                 INSQUE (.RQCB, .OCD [OCD_L_RQSTFLINK]);
OCD [OCD_W_RQSTCOUNT] = .OCD [OCD_W_RQSTCOUNT] + 1;
$bblock [RQCB [RQCB_L_OPTIONS], OPC$V_NOBRD] = 0;
$bblock [RQCB [RQCB_L_OPTIONS], OPC$V_NOLOG] = 0;
                                 0309
                                 0310
                                                                                                                                                                                      ! Clear option bits
                                0312
0313
0314
0315
0316
0317
0318
                                                         ELSE
                                                                  DEALLOCATE_RQCB (.RQCB);
                                                                                                                                                                                     ! Dellocate the RQCB
      316
317
                                                          END
                                                 ELSE
      318
319
320
321
322
323
324
326
327
                                                         BEGIN
                                                             None of the operators on the OCD's operator list were enabled to receive the request. If no reply is expected, just return. If a reply was expected, then cancel the
                                                              request and log the cancelation.
                                                           IF .RQCB [RQCB_W_REPLYMBX] NEQ 0
                                                          THEN
                                                                  BEGIN
```

OP O

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6 13
16-Sep-1984 01:36:41
14-Sep-1984 12:50:50
OPCSOPCOMRQST
                                                                                                                                                                                      VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJOPCOMRQST.B32;1
                                                                                                                                                                                                                                                                 Page
V04-000
                                                                                                                                                                                                                                                                           (2)
                                                                 MESSAGE_VECTOR [0] = OPC$_NOPERATOR;

MESSAGE_VECTOR [1] = 0;

FORMAT_MESSAGE (.RQCB, MESSAGE_VECTOR);

SEND_REPLY (.RQCB);

LOG_MESSAGE (.RQCB);
                                                                  END
                                                          DEALLOCATE_RQCB (.RQCB);
                                                          END:
                                                 END:
                                                                                                                                                     ! End of REQUEST_HANDLER
                                                                                                                                                         .TITLE
                                                                                                                                                                         OPC$OPCOMRQST
                                                                                                                                                                          \V04-000\
                                                                                                                                                                        LCL_NOD, NOD_HEAD
GLOBAL_STATUS, REQUEST_NUMBER
CHECK_REQUEST, CLUSMSG_CONV_CLM_RQCB
CLUSMSG_RQCB_SEND
CLUSUTIL_INCR_SEQUENCE
DEALLOCATE_MCB, DEALLOCATE_RQCB
DUMP_LOG_FILE, FIND_OCD
FORMAT_MESSAGE, LOG_MESSAGE
NOTIFY_LISTED_OPERATORS
SEND_REPLY, TRIM_LENGTH
LCL_NODENAME, OPCSGET_VM
SYSSGETMSG, LIB$STOP
                                                                                                                                                          .EXTRN
                                                                                                                                                          .PSECT
                                                                                                                                                                         $CODE$,NOWRT,2
                                                                                                                                                                         REQUEST HANDLER, Save R2,R3,R4,R5,R6,R7,R8,-; 0099
R9,R10,R11
FORMAT_MESSAGE, R11
LCL_NODENAME, R10
-116(SP), SP
                                                                                                                  OFFC 00000
                                                                                                                                                          .ENTRY
                                                                                5B
5E
AE
AE
52
                                                                                                                      9E
9E
9E
9E
9E
00
                                                                                                                                                         MOVAB
                                                                                                                            00007
                                                                                               0000G
                                                                                                             CF
AE
8F
AE
AC
62
01
                                                                                                                                                         MOVAB
                                                                                                   80
10
04
                                                                                                                            00000
                                                                                                                                                         MOVAB
                                                                                                                                                                         #64, ON_DSC
ON_BUF, ON_DSC+4
BUFFER_DESC, R2
(R2), #66
                                                                      08
00
                                                                                                                            00010
                                                                                                                                                         MOVZBL
                                                                                                                                                                                                                                                                         0134
                                                                                                                            00015
                                                                                                                                                         MOVAB
                                                                                                                            0001A
                                                                                                                                                         MOVL
                                                                                                                                                                                                                                                                         0159
                                                                                                                      B1
1E
                                                                  0042
                                                                                                                            0001E
                                                                                                                            00023
                                                                                                                                                         BGEQU
                                                                                                                      04
                                                                                                                            00025
                                                                                                                                                         RET
                                                                                                                                                                         #^M<R2,SP>
#2, CHECK_REQUEST
R0, 2$
                                                                                                              8F
02
50
                                                                                                                      BB
                                                                                                                            00026 15:
                                                                                               4004
                                                                                                                                                         PUSHR
                                                                                                                                                                                                                                                                         0165
                                                                                CF
01
                                                                                                                      F804409913
                                                                                                                            0002A
                                                                  0000G
                                                                                                                                                         CALLS
                                                                                                                            0002F
00032
00033 2$:
                                                                                                                                                         BLBS
                                                                                                                                                                         MESSAGE_VECTOR
RQCB, R6
56(R6), R0
104(R6), R7
(R0), (R7)
                                                                                                                                                                                                                                                                         0168
                                                                                                              AE
6E
A6
A6
60
                                                                                                                                                         CLRL
                                                                                56
50
57
67
                                                                                                                            00036
00039
                                                                                                                                                          MOVL
                                                                                                   38
68
                                                                                                                                                         MOVAB
                                                                                                                            0003D
                                                                                                                                                         MOVAB
                                                                                                                           00041
00044
00046
00048
00050
00052
                                                                                                                                                         CMPL
                                                                                                                                                         BEQL
                                                                                                                                                                          #2, 50(R6), 4$
2(R0), 2(R7)
                                                                                                                                                                                                                                                                         0176
0178
                                                    16
                                                                                                                      E0
B1
12
E8
D0
                                                                                                                                                         BBS
                                                                                                              A0
04
A6
8F
                                                                                                   02
                                                                                                                                                         CMPW
                                                                                                                                                         BNEQ
                                                                                                                                                                         49(R6), 48
#360572, MESSAGE_VECTOR
MESSAGE_VECTOR+4
                                                                                OB 0005807C
                                                                                                                                                                                                                                                                         0179
0182
0183
                                                                                                                                                         BLBS
                                                                                                                                                         MOVL
                                                                                                                                                         CLRL
```

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| PCSOPCOMRQST<br>/04-000 |      |    |   |                |                      |                                    |                      | 16-S<br>14-S   | ep-1984 01:36<br>ep-1984 12:50   | 3:41<br>3:50        | VAX-11 Bliss-32 V4.0-742<br>COPCOM.SRCJOPCOMRQST.B32;1    | Page (                     |
|-------------------------|------|----|---|----------------|----------------------|------------------------------------|----------------------|--|--|---------------------|---|----------------------------|
| 1                       |      | 52 | 04                                      | A2<br>58<br>68 | 0084                 | 26<br>C6<br>A2<br>1A               | C1                   |  | ADDL3 MOVAB MOVZWL BLEQ PUSHAB PUSHL CALLS   | #38<br>132(         | 4(R2), MSG<br>R6), R8<br>ISG), (R8)                       | : 01                       |
|                         |      |    |   | 68             | 1A                   | 14                                 | 15                   | 0006B<br>0006F   | BLEQ   | 26 (M               | ISG), (R8)  | 01                         |
|                         |      |    | 00006                                   | CF             | 0088                 | 58<br>02                           | DD<br>FB             |  | PUSHAB   | 136(<br>R8          | OPCEGET VM  | : 01                       |
|                         |      |    | *************************************** | 59             |                      | 50                                 | DO<br>E9             | 0007¢  | MOVL<br>BLBC<br>MOVC3  | RO,                 | OPC\$GET_VM<br>STATUS<br>'US, 12\$<br>, 28(MSG), @136(R6) |                            |
|                         | 0088 | 06 | 10                                      | A2             |                      |                                    | 28                   | 00082  | MOVC3<br>BRB   | 0.3                 |   | 02                         |
|                         |      |    | 50                                      |                | 0005807C             | 68<br>08<br>8F<br>AE<br>A6<br>05   | D0                   | 0008B 5\$  | : MOVL<br>CLRL   | #360<br>MESS        | 572, MESSAGE_VECTOR<br>AGE_VECTOR+4<br>6), #4             | 02<br>01<br>02<br>02<br>02 |
|                         |      |    |   | 04             | 53                   | 05<br>05                           | 91                   | 00096 6\$  | ENEQ<br>MOVL   | 12                  |   |                            |
|                         |      |    |   | 53<br>53       | 53                   | 04                                 | 11<br>9A             | 16000  | BRB  | 85                  | SCOPE_LIMIT   | 02                         |
|                         |      |    |   |                | 53                   | A6<br>50<br>A6<br>52               | 04<br>9A             | 000A5 8\$  | CLRL<br>MOVZBL   | FOUN                | 6), SCOPE_LIMIT   | ; 02<br>; 02<br>; 02       |
|                         |      |    |   | 52<br>53       | ,,                   | 52<br>16                           | D1<br>19             | 000AB 9\$  | · CMPI   | SCOP<br>10\$        | E, SCOPE_LIMIT  | : 02                       |
|                         |      |    |   | 21             | 04                   | 50<br>AE<br>67                     | E8                   | 000B0  | BLSS<br>BLBS<br>PUSHAB<br>PUSHL<br>PUSHL<br>CALLS  | FOUN<br>OCD<br>(R7) | ID, 11\$  | . 02                       |
|                         |      |    |   |                |                      | 67                                 | DD                   | 000B6<br>000B8   | PUSHL  | SCOP                | E   |                            |
|                         |      |    | 0000G                                   | CF<br>E9       |                      | 50                                 | FB<br>E8             | 000BA<br>000BF   | BLBS<br>DECL   | FOUN                | FIND OCD  |                            |
|                         |      |    |   | OB             |                      | E5                                 | 11<br>E8             | 000C2<br>000C4<br>000C6 10   | BRB  | 73                  |   | : 02                       |
|                         |      |    | 50                                      | 0B<br>AE       | 00058061             | 50<br>8F<br>AE                     | E8<br>D0<br>D4<br>D5 | 000C9<br>000D1   | MOVL   | #360<br>MESS        | D, 11\$<br>545, MESSAGE_VECTOR<br>AGE_VECTOR+4            | 02<br>02<br>02<br>02<br>02 |
|                         |      |    |   |                | 50                   | AE<br>15                           |                      | 000D4 11<br>000D7  | S: TSTL<br>BEQL  | WE 22               | AGE_VECTOR  |                            |
|                         |      |    |   |                | 50                   | AE<br>56                           | 9F<br>DD             | 000DC  | PUSHAB   | MESS<br>R6          | AGE_VECTOR  | 02                         |
|                         |      |    |   | 6B             | 50                   | AE<br>56<br>02<br>AE<br>56         | FB<br>9F             | 000DE<br>000E1   | TSTL BEQL PUSHAB PUSHL CALLS PUSHAB PUSHL CALLS  | MESS                | AGE_VECTOR  FORMAT_MESSAGE AGE_VECTOR  SEND_REPLY         | : 02                       |
|                         |      |    | 0000G                                   | CF             |                      | 02                                 | FB<br>31             | 000E6<br>000EB 12  | CALLS  | #2<br>104           | SEND_REPLY  | 02                         |
|                         |      |    | 24                                      | 52<br>A6<br>A6 | 04                   | AE<br>52                           | ĎÔ                   | 000EB 12<br>000EE 13<br>000F2  | : MOVL   | OCD.                | R2<br>36(R6)  | 02                         |
|                         |      |    | 53                                      | A6             | 0B                   | 010D<br>AE<br>52<br>A2<br>6A<br>26 | 90<br>85             | 000F6<br>000FB   | MOVB   | 11(R                | R2<br>36(R6)<br>2), 83(R6)<br>NODENAME                    | 02                         |
|                         |      |    |   | 7E             |                      | 01                                 | 70                   | 000C6<br>000C9<br>000D1<br>000D4<br>11<br>000D7<br>000DE<br>000DE<br>000E1<br>000E4<br>000E8<br>000F2<br>000F2<br>000F6<br>000FB<br>000FD<br>000FF | BEQL   | 145                 | -(SP)   | 02                         |
|                         |      |    |   |                | 10<br>14<br>000582AB | AE                                 | 9F                   | 00102  | PUSHAB   | ON_D                | SC<br>SC  |                            |
|                         |      | 00 | 000000G                                 | 00<br>59       | UUU382AB             | 05                                 | FB                   | 0010E  | CALLS  | #5.                 | SYS\$GETMSG   |                            |
|                         |      |    |   | OD             |                      | AE<br>8F<br>050<br>59<br>01        | E8                   | 00108<br>0010E<br>00115<br>00118<br>0011B<br>0011D<br>00124  | B: BRW MOVL MOVL MOVB TSTW BEQL MOVQ PUSHAB PUSHAB PUSHL CALLS MOVL BLBS PUSHL CALLS RET | STAT                | -(SP) SC SC 131 SYS\$GETMSG STATUS US, 15\$ US LIB\$STOP  | 020                        |
|                         |      | 00 | 000000G                                 | 00             |                      | ÓÍ                                 | FB<br>04             | 00110  | CALLS  | #1,                 | LIB\$STOP   |                            |

OP

|                                  |                |                      |  |                      | 1   | 1 13<br>6-Sep-19<br>4-Sep-19 | 984 01:36<br>984 12:50   | :41 VAX-11 Bliss-32 V4.0-742<br>:50 [OPCOM.SRC]OPCOMRQST.B32;1   | Page | (2)  |
|----------------------------------|----------------|----------------------|--|----------------------|---|------------------------------|--|--|------|--|
|                                  | 53             | 08<br>3C<br>2E       | AE<br>A6<br>A6<br>41                               | 94<br>95<br>85       | 00125<br>00128<br>00120   | 14\$:<br>15\$:               | CLRL<br>MOVAB<br>TSTW  | ON DSC<br>607R6), R3<br>46(R6)   | : 0  | 263<br>273<br>264  |
| 0000G<br>0000G                   | CF             | 00006                | \$C1000 FF A663 A653 AE                            | 9810F00040C0EC       | 00125<br>00126<br>00127<br>00131<br>00135<br>00136<br>00140<br>00155<br>00167<br>00167<br>00170 |                              | BEQL<br>PUSHL<br>CALLS<br>MOVL<br>MOVL<br>MOVL<br>CLRL                   | REQUEST NUMBER  #1, CLUSUTIL INCR SEQUENCE  R0, REQUEST NUMBER  REQUEST NUMBER, 112(R6)  #360619, MESSAGE_VECTOR  MESSAGE_VECTOR+4  112(R6), MESSAGE_VECTOR+12  R3, MESSAGE_VECTOR+16  ON_DSC, MESSAGE_VECTOR+20  LCT_NODENAME, MESSAGE_VECTOR+24  LCL_NODENAME+4, MESSAGE_VECTOR+28  R8, MESSAGE_VECTOR+32  17\$  #360627, MESSAGE_VECTOR | 1    | 267  |
| 70<br>50                         | A6<br>AE       | 000580AB             | 8F   | DÓ                   | 00145   |                              | MOVL   | #360619, MESSAGE_VECTOR  | : 0  | 269  |
| 58<br>50<br>64<br>68<br>60<br>70 | AE<br>AE<br>AE | 70<br>74             | A6<br>A6<br>53                                     | 00<br>30             | 00150<br>00155<br>00154   |                              | MOVL<br>MOVZWL   | 112(R6), MESSAGE VECTOR+8 116(R6), MESSAGE VECTOR+12   |      | 1268<br>1269<br>1270<br>1271<br>1273<br>1274<br>1275<br>1276<br>1276<br>1283<br>1284<br>1283<br>1288<br>1288<br>1288<br>1288<br>1288<br>1288<br>1288 |
| 64                               | AE             | 08                   | AE<br>6A   | 3E                   | 0015E   |                              | MOVAB<br>MOVAB   | ON DSC, MESSAGE VECTOR+20  | : 0  | 274  |
| 6C<br>70                         | AE<br>AE       | 04                   | A886F A63 A  | DO<br>DO<br>11       | 00167<br>0016C  |                              | MOVZWL<br>MOVL<br>MOVL<br>BRB  | LCL_NODENAME+4, MESSAGE_VECTOR+28 R8, MESSAGE_VECTOR+32  | 000  | 276  |
| 50                               | AE             | 000580B3             | 8F   | D0                   | 00172   | 16\$:                        | BRB<br>MOVL<br>CLRL<br>MOVZWL  | #360627, MESSAGE_VECTOR  | : 0  | 281  |
| 58<br>50<br>64<br>68<br>60       | AE             | 74                   | A6<br>53   | 3C                   | 00182   |                              | MOVL   | #360627, MESSAGE_VECTOR MESSAGE_VECTOR+4 116(R6), MESSAGE_VECTOR+8 R3, MESSAGE_VECTOR+12 ON_DSC, MESSAGE_VECTOR+16 LCL_NODENAME, MESSAGE_VECTOR+20 LCL_NODENAME+4, MESSAGE_VECTOR+24 R8, MESSAGE_VECTOR+28 MESSAGE_VECTOR+28 MESSAGE_VECTOR R6   | . 0  | 283  |
| 60                               | AE             | 08                   | AE<br>6A   | 9E                   | 00186<br>0018B  |                              | MOVAB  | ON DSC. MESSAGE VECTOR+16  | : 0  | 285  |
| 68                               | AE             | 04                   | AA<br>SR   | 9E<br>3C<br>DO       | 00186<br>0018B<br>0018F<br>00194<br>00198   |                              | MOVL   | LCL_NODENAME+4, MESSAGE_VECTOR+24  | : 0  | 287  |
| 00                               | 6B             | 50                   | A8E626106E1361696E0E3                              | 9F                   | OOTUR   | 17\$:                        | MOVL<br>MOVL<br>PUSHAB<br>PUSHL<br>CALLS<br>PUSHL                        | MESSAGE_VECTOR R6 #2, FORMAT_MESSAGE   | ŏ    | 290  |
| 0000G                            | CF<br>2B       |                      | 56<br>01<br>50                                     | DD<br>FB<br>E9       | 0019B<br>0019D<br>001AO<br>001A2<br>001A7<br>001AA  |                              | PUSHL<br>CALLS<br>BLBC<br>PUSHL  | #1, NOTIFY_LISTED_OPERATORS R0, 18\$   | 0    | 291  |
|                                  | 7E             |                      | 56<br>0E<br>01                                     | DD<br>DD<br>CE       |   |                              | PUSHL  | R6<br>#14<br>#1(SP)  | 0    | 299  |
| 0000G                            | CF             |                      | 03<br>56   | FB                   | 001B1<br>001B6  |                              | CALLS  | #3, CLUSMSG_RQCB_SEND  | : 0  | 304  |
| 0000G                            | CF             | 2E                   | 01<br>A6   | FB<br>B5             | 001AE<br>001B1<br>001B6<br>001BB<br>001C0<br>001C2  |                              | CALLS<br>TSTW<br>BEQL<br>INSQUE  | #1, LOG_MESSAGE<br>46(R6)<br>19\$  | :    | 305  |
| 30                               | B2<br>50       | 04<br>3A             | 66<br>AE   | 0E<br>00<br>00<br>00 | 001C2<br>001C6<br>001CA   |                              | INSQUE<br>MOVL<br>INCW   | (R6) a60(R2)   | 0    | 308<br>309   |
| 54                               | 50<br>A0       | 3.                   | 6 <u>E</u>   | DO<br>8A<br>04       | 001CD<br>001D0  |                              | MOVL   | OCD, RO<br>58(RO)<br>RQCB, RO<br>#3, 84(RO)  | 0    | 310<br>311<br>305<br>324   |
|                                  |                | 2E                   | A6   | B5                   | 00105   | 18\$:                        | TSTW   | 46(R6)<br>19\$   | : 0  | 324  |
| 50                               | AE             | 00058061<br>54<br>50 | A6<br>21<br>8F<br>AE<br>50<br>50<br>50<br>50<br>50 | DO<br>D4<br>9F       | 001CD<br>001D0<br>001D4<br>001D8<br>001D8<br>001E2<br>001E5<br>001E8                            |                              | RET<br>TSTW<br>BEQL<br>MOVL<br>CLRL<br>PUSHAB<br>PUSHL<br>CALLS<br>PUSHL | #360545, MESSAGE_VECTOR MESSAGE_VECTOR+4 MESSAGE_VECTOR  | 0    | 327<br>328<br>329  |
|                                  | 6B             |                      | 56   | DD<br>FB             | 001E8   |                              | PUSHL  | R6<br>W2, FORMAT_MESSAGE   |      |  |
| 0000G                            | CF             |                      | 56   | DD                   | OUILD   |                              | PUSHL  | KO   | 0    | 330  |
|                                  |                |                      | 56   | FB                   | 001F4   |                              | PUSHL  | #1, SEND_REPLY R6 #1, LOG_MESSAGE  | : 0  | 331  |
| 0000G                            | CF             |                      | 01   | FB                   | 001F6   |                              | CALLS  | #1, LOG_MESSAGE  |      |  |

OP VO OPCSOPCOMRQST

VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJOPCOMRQST.B32;1

Page 10 (2)

0000G CF

PUSHL CALLS RET #1, DEALLOCATE\_RQCB

0333 0336 OP VO

; Routine Size: 515 bytes, Routine Base: \$CODE\$ + 0000

00

00

OP VO

(3)

```
Allocate an RQCB and convert the message RQCB into the new RQCB
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3978
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4114
                                  IF NOT CLUSMSG_CONV_CLM_RQCB (.CLM, RQCB)
                                 THEN
                                        RETURN DUMP_LOG_FILE (.BUFFER_DESC, ascid_INVALIDRQCB);
                                    find an OCD that can handle this request. The OCD is selected according to the SCOPE and UIC of the requestor. If the SCOPE is unspecified, then look for operator coverage starting in the least privileged scope and continuing to the most privileged. If no OCD is found, then dismiss the request.
                                  IF (.RQCB [RQCB_B_SCOPE] EQL OPC$K_UNSPEC)
                                        SCOPE_LIMIT = OPCSK_SYSTEM
                                  ELSE
                                 SCOPE_LIMIT = .RQCB [RQCB_B_SCOPE];
FOUND = FALSE;
                                 SCOPE = .RQCB [RQCB_B_SCOPE];
WHILE (.SCOPE GEQ .SCOPE_LIMIT) AND (NOT .FOUND) DO
IF NOT (FOUND = FIND_OCD (.SCOPE, .RQCB [RQCB_L_UIC], OCD))
THEN
                                              SCOPE = .SCOPE - 1;
                                  IF NOT . FOUND
                                 THEN
                                        DEALLOCATE_RQCB (.RQCB);
                                        RETURN;
                                        END:
                                 RQCB [RQCB_L_OCD] = .OCD;
RQCB [RQCB_B_SCOPE] = .OCD [OCD_B_SCOPE];
                                                                                                                  Save OCD address
                                                                                                               ! Set request scope
                                    Tell the world about the request, first to the log file, then to the operators. We know that an operator was notified, otherwise the remote node would not have sent the
                                     message.
                                 LOG_MESSAGE (.RQCB);
                                 NOTIFY_LISTED_OPERATORS (.RQCB);
                                     At least one operator was notified of the request. If the request expects a reply,
                                     then queue the RQCB onto the OCD for future reference.
                                  IF .RQCB [RQCB_W_REPLYMBX] NEQ 0
                                 THEN
                                        BEGIN
                                        INSQUE (.RQCB, .OCD [OCD_L_RQSTFLINK]);
OCD [OCD_W_RQSTCOUNT] = .OCD [OCD_W_RQSTCOUNT] + 1;
$bblock [RQCB [RQCB_L_OPTIONS], OPC$V_NOBRD] = 0;
$bblock [RQCB [RQCB_L_OPTIONS], OPC$V_NOLOG] = 0;
                                                                                                                           ! Clear option bits
                                 ELSE
                                        DEALLOCATE_RQCB (.RQCB);
                                                                                                                            ! Dellocate the RQCB
                                 END:
                                                                                                               ! End of REQUEST_CLM_HANDLER
```

OP VO

OP VO

```
B 14
16-Sep-1984 01:36:41
14-Sep-1984 12:50:50
 OPCSOPCOMRQST
V04-000
                                                                                                                                                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJOPCOMRQST.B32:1
                                                                                                                                                                                                                                                                                                                                                                                                                                               (4)
                                                                                                                                                                                                                                                                                                                                                                                                                                Page
                                                                                  GLOBAL ROUTINE REQUEST_CLM_CHECK_HANDLER (BUFFER_DESC : $ref_bblock, CLM : $ref_bblock, LEN) : NOVALUE =
Functional description:
                                                                                                            This routine is the handler for all CHECK_REQUEST messages received by OPCOM from remote nodes.
                                                                                        Input:
                                                                                                                                                                 pointer to message from remote node, including $SNDOPR header pointer to CLMRQCB structure length of LEN
                                                                                                            BUFFER_DESC -
                                                                                                           CLM -
                                                                                        Implicit Input:
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0
                                                                                                            None.
                                                                                        Output:
                                                                                                            None.
                                                                                        Implict output:
                                                                                                            Some accounting data will be updated
                                                                                                            to reflect the receipt of the message.
                                                                                        Side effects:
                                                                                                           None.
                                                                                       Routine value:
                                                                                                           None.
                                                                                BEGIN
                                                                                                                                                                                                                                                 ! Start of REQUEST_CLM_CHECK_HANDLER
                                                                                LOCAL
                                                                                                                                                                      $ref_bblock,
$ref_bblock,
$ref_bblock,
$ref_bblock,
                                                                                                                                                                                                                                                       RQCB data structure
RQCB data structure
                                                                                                            ROST
                                                                                                            RQCB
                                                                                                            OCD
                                                                                                                                                                                                                                                        OCD data structure
                                                                                                            MCB
                                                                                                                                                                                                                                                        MCB data structure
                                                                                                                                                                                                                                                        Pointer to user request
Count of requests
                                                                                                            MSG
                                                                                                            RQST_COUNT
                                                                                                                                                                        LONG.
                                                                                                            FOUND
                                                                                                                                                                        LONG.
                                                                                                                                                                                                                                                        Boolean
                                                                                                            SCOPE
                                                                                                                                                                        LONG.
                                                                                                                                                                                                                                                        Scope of request
                                                                                                            SCOPE_LIMIT
                                                                                                                                                                 : LONG,
                                                                                                                                                                                                                                                       Loop control
                                                                                                                                                                  : LONG:
                                                                                        Check the version number of the message. If the message is from any other version,
                                                                                        simply ignore it.
                                                                                 IF . CLM [CLM_B_DS_VERSION] NEQ CLMRQCB_K_DS_VERSION
```

RETURN DUMP\_LOG\_FILE (.BUFFER\_DESC, %ASCID 'CLM\_CHECK\_REQUEST mismatch');

THEN

OPC VO4

OPO VO4

| OPC\$01<br>V04-00 | 00 | RQST | 056<br>056<br>056<br>056<br>056 | 2545678 | !!    | QUE<br>COC |      |                   | good, a<br>D [OCD_I<br>JNT] = .0 |                                |  | the li   | st               |   |  |  | age        | (43  |
|-------------------|----|------|---------------------------------|---------|-------|------------|------|-------------------|----------------------------------|--------------------------------|--|--|------------------|---|--|--|------------|--|
| 55 5              |    | 5 52 |                                 |         | 43 61 | 45<br>6D   | 48   | 43 51<br>69 61    | 5 F 41<br>5 20 54                | 0 4C<br>4 53<br>010E0<br>00000 | 43<br>45<br>01B<br>000°  | 00020<br>0002F<br>0003C<br>00040                                     | P.AAD:<br>P.AAC: | .PSECT  | \$PLI  | ST_CLM_CHECK_HANDLER  T\$,NOWRT,NOEXE,2 CHECK_REQUEST mismatch\<0> 4747 AD   |            |  |
|                   |    |      |                                 |         |       |            | 0000 | OD OG CF E8 27 52 | 0000<br>4004<br>0000<br>53<br>53 | 08C20FCCA02 6A35150E3055240    | 913<br>911<br>913<br>911<br>86<br>86<br>90<br>912<br>913<br>914<br>914<br>915<br>916<br>917<br>917<br>917<br>917<br>917<br>917<br>917<br>917<br>917<br>917 | 00002<br>00005<br>00009<br>0000F<br>00013<br>00015<br>00019<br>00021 | 2\$:             | PSECT  ENTRY SUBLE MOVE MOVE BEGLAB PUSHAB PUSHAB PUSHLS RETU CMPB PUSHLS RETU CMPB MOVE BROVE BROVE BROVE BROVE BLBS BLBS BLBS BLBS BLBS BLBS BLBS BLB | REQUIERS AND CLER AND | R2.SP> CLUSMSG_CONV_CLM_RQCB  SSD_INVALIDRQCB ER_DESC DUMP_LOG_FILE  R3 3), #4  SCOPE_LIMIT D 3), SCOPE_LIMIT D 4. SCOPE_LIMIT D 5. SCOPE_LIMIT D 6. 8\$ | 0 0 0 0000 | 0502<br>0502<br>0504<br>0508<br>0510<br>0516<br>0521<br>0523<br>0523<br>0524<br>0524 |

OP(

| OPCSOPCOMRQST |       |                |          | E 14<br>16-Sep-1984 01:36:41 VAX-11 Bliss-32 V4.0-742<br>14-Sep-1984 12:50:50 [OPCOM.SRCJOPCOMRQST.B32   | Page 18                   |
|---------------|-------|----------------|----------|--|---------------------------|
|               |       | 55<br>54       | 3A<br>3C | MOVZWL 58(R2), RQST_COUNT MOVL 60(R2), RQST_COUNT MOVL 60(R2), RQST_COUNT MOVL RQST_COUNT MOVL 112(R3), 112(RQST) MOVZWL 58(R2), RQST_COUNT MOVL RQST_COUNT MOVL 112(R3), 112(RQST) MOVZWL 58(R2), RQST_COUNT MOVL RQST_COUNT MOVL (RQST), RQST MOVZWL 58(R2), RQST_COUNT MOVL (RQST), RQST MOVZWL 60(R2), RQST_COUNT MOVL (RQST), RQST_COUNT MOVL | : 0539<br>: 0540<br>: 054 |
|               | 70    | A4             | 70       | 3 D1 0007E CMPL 112(R3), 112(RQST) 7 13 00083 BEQL 10\$  | 054                       |
|               |       | 54             |          | 05 D7 00085 DECL ROST_COUNT<br>04 D0 00087 MOVL (ROST), ROST<br>05 DT 0008A BRB 9\$<br>05 DD 0008C 10\$: PUSHL R3<br>01 FB 0008E CALLS #1, DEALLOCATE_ROCB   | 054<br>054<br>054<br>055  |
|               | 0000G | CF             |          | 3 DD 0008C 10\$: PUSHL R3<br>01 FB 0008E CALLS #1, DEALLOCATE_RQCB<br>04 00093 RET   |                           |
|               | 00006 | CF             |          | 03 DD 00094 11\$: PUSHL R3 01 FB 00096 CALLS #1, LOG_MESSAGE 03 DD 0009B PUSHL R3 01 FB 0009D CALLS #1, NOTIFY_LISTED_OPERATORS  | 0556<br>0566              |
|               | 0000G | CF<br>B2<br>50 | 04<br>3A | 01 FB 0009D CALLS #1, NOTIFY_LISTED_OPERATORS 03 0E 000A2 INSQUE (R3), a60(R2) 04 000A6 MOVL 0CD, R0 04 000AA INCW 58(R0) 04 000AD RET   | 056<br>056<br>056         |

; Routine Size: 174 bytes, Routine Base: \$CODE\$ + 02A3

OP 

F 14 16-Sep-1984 01:36:41 14-Sep-1984 12:50:50 OPCSOPCOMRQST VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJOPCOMRQST.B32;1 0569 1 END 0570 0 ELUDOM : 573

Page 19 (5)

! End of OPCOMRQST

PSECT SUMMARY

Name

Bytes

Attributes

SCODES SPLITS

RD , EXE, NOSHR, LCL, REL, RD , NOEXE, NOSHR, LCL, REL, NOVEC, NOWRT, CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2)

Library Statistics

| File   | Total        | Symbols<br>Loaded | Percent | Pages<br>Mapped | Processing<br>Time |
|--|--------------|-------------------|---------|-----------------|--------------------|
| \$255\$DUA28:[SYSLIB]LIB.L32;1<br>\$255\$DUA28:[OPCOM.OBJ]OPCOMLIB.L32;1 | 18619<br>633 | 13<br>32          | 0 5     | 1000            | 00:01.9<br>00:00.9 |

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:OPCOMRQST/OBJ=OBJ\$:OPCOMRQST MSRC\$:OPCOMRQST/UPDATE=(ENH\$:OPCOMRQST)

; Size: 849 code ; Run Time: 00:20.1 ; Elapsed Time: 00:54.7 ; Lines/CPU Min: 1703 ; Lexemes/CPU-Min: 16488 ; Memory Used: 183 pages ; Compilation Complete 849 code + 68 data bytes 00:20.1 00:54.7 1703

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